

### **AMENDMENTS TO THE CLAIMS**

- 1-98. (Canceled)
99. (New) A method for administering an oligonucleotide into a lung of a mammal, said method comprises:
- aerosolizing an oligonucleotide; and
  - introducing the aerosolized oligonucleotide into the lung of a mammal,
- wherein the aerosol particles have a size of about 1 to about 5 microns, wherein said oligonucleotide is about 8 to about 30 nucleotides in length, wherein a plurality of said nucleosides in said oligonucleotide are 2'-O-methoxyethyl nucleosides, wherein at least one internucleotide linkage within said oligonucleotide is a phosphorothioate linkage, and wherein said oligonucleotide is taken up by at least one cell type in the lung of the mammal.
100. (New) The method of claim 99, wherein all internucleotide linkages within said oligonucleotide are a phosphorothioate linkage.
101. (New) The method of claim 99, wherein at least one cytosine in said oligonucleotide is a 5-methylcytosine.
102. (New) The method of claim 99, wherein every cytosine in said oligonucleotide is a 5-methylcytosine.
103. (New) The method of claim 99, wherein said oligonucleotide is in an aqueous media.
104. (New) The method of claim 99, wherein said oligonucleotide is in sterilized, pyrogen free water.
105. (New) The method of claim 99, wherein said oligonucleotide is in a saline solution.
106. (New) The method of claim 99, wherein said oligonucleotide is in a powder.
107. (New) The method of claim 99, wherein each internucleotide linkage within said oligonucleotide is a phosphorothioate linkage, and wherein each cytosine is a 5-methylcytosine.
108. (New) The method of claim 99, wherein at least about half of said nucleosides in said oligonucleotide are 2'-O-methoxyethyl nucleosides.

**Appl. No.** : **09/315,292**  
**Filed** : **May 20, 1999**

109. (New) The method of claim 99, wherein said oligonucleotide is about 15 to about 25 nucleotides in length.

110. (New) The method of claim 109, wherein all internucleotide linkages within said oligonucleotide are a phosphorothioate linkage.

111. (New) The method of claim 109, wherein at least one cytosine in said oligonucleotide is a 5-methylcytosine.

112. (New) The method of claim 109, wherein every cytosine in said oligonucleotide is a 5-methylcytosine.

113. (New) The method of claim 109, wherein said oligonucleotide is in an aqueous media.

114. (New) The method of claim 109, wherein said oligonucleotide is in sterilized, pyrogen free water.

115. (New) The method of claim 109, wherein said oligonucleotide is in a saline solution.

116. (New) The method of claim 109, wherein said oligonucleotide is in a powder.

117. (New) The method of claim 109, wherein each internucleotide linkage within said oligonucleotide is a phosphorothioate linkage, and wherein each cytosine is a 5-methylcytosine.

118. (New) The method of claim 109, wherein at least about half of said nucleosides in said oligonucleotide are 2'-O-methoxyethyl nucleosides.

119. (New) The method of claim 118, wherein said oligonucleotide is 20 nucleotides in length, and said oligonucleotide is in a saline solution.